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**PROFESSIONAL SUMMARY**

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Machine learning & Predictive data analyst with 2 years of experience. Experienced in Machine learning algorithms (such as Segmentation and Modelling) and A/B Testing. Expert understanding of Software Development Life Cycle (SDLC) as well as Agile/Scrum methodology. Hands on experience in writing queries in SQL and R to extract, transform and load (ETL) data from large datasets. Utilizing advanced data analysis skills on Tableau and SQL Server to develop insights. Seeking to leverage data analytical skills to improve corporate performance as a data analyst/data scientist.

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**EDUCATION**

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**Master of Science in Computer Science**, University of North Carolina at Charlotte, USA May 2018 | GPA: 3.9

**Coursework:** Machine Learning, Advanced Business Intelligence and Analytics, Knowledge Discovery in Databases, Software System Design and Implementation, Algorithms and Data Structures, Database Systems, Bigdata Cloud Deployment

**Bachelor of Engineering – Computer Engineering**, University of Mumbai, India June 2015 | Distinction

**Coursework:** Analysis of Algorithms and Design, Advanced Database Management System, Data warehousing & Mining, Computer Programming II – JAVA

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**TECHNICAL SKILLS**

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Programming Languages	: Python, R, SAS, SQL
Libraries (R and Python)	: caret, forecast, tidyr, dplyr, sqldf, ggplot2, pandas, matplotlib, scikit-learn, NumPy, TensorFlow, seaborn
Web Development /Web Services	: PHP, JSP, HTML5, CSS, Django, JavaScript, JQuery, D3
Database	: Oracle 10g, SQL Server 2016, MySQL, PostgreSQL 11, PostgreSQL 9.6
Data Mining Tools	: SAS E Miner, SAS Enterprise Guide, Base SAS, R, MS Excel, Stata, VBA
Data Mining Techniques	: Regression, Decision Trees, Association Rule Mining, Clustering, Decision Tables, Random Forest, Time-Series Analysis, Artificial Neural Networks, Text Analysis, Regression
BI/Analytic tools	: R Studio, Jupyter Notebook, Spyder, Tableau, MS Excel, QlikView, Power BI
Version Control	: GitHub, Git

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**PROFESSIONAL EXPERIENCE**

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**Teaching Assistant at Trilogy Education Services, UNC Charlotte** (Feb 2018 – Current)

- Present lectures and facilitate interactive review sessions in lab to reinforce concepts introduced by instructors.
- Hold office hours and maintain email correspondence to provide students with the individual attention necessary to succeed in graduate-level classes.
- Assist professors in evaluating students by grading homework, exams, projects, and participation.
- Supporting an intensive, 6-month Data Analytics & Visualization Bootcamp based out of UNC Charlotte involving 250+ hours of in-class teaching through an extensive curriculum including: Advanced Excel, Python, JavaScript (D3.js, Leaflet.js), HTML/CSS, API Interactions, Social Media Mining, SQL, Tableau, Advanced Statistics, Machine Learning, Git/GitHub.

**ITDS Testing Analyst-Sr at TIAA-CREF** (Sep 2018 – Nov 2018)

- Working with financial technology projects where my primary responsibilities involve extraction of text from image, process automation and reporting.

**Graduate Research Assistant at Department of Visualization Center, UNC Charlotte** (June 2017 – Aug 2017)

- Worked under Dr. Ashit Talukder, Bank of America Endowed Chair in Information Technology.
- Web scraped various medical journal websites for papers relating to the cause and cure of cancer using BeautifulSoup and Xpath tree in Python.
- Performed data preprocessing on the collected data to extract meaningful and useful data.
- Creating significant datasets useful for advanced analysis and interpretation.
- Analyzed the thus created datasets, performed cluster analysis and visualized the cluster categories in D3.js.
- Created a sensitive word dataset which had resemblance or connection to suspicious activities from various online forums.

**Intern at International ThermoDyne, Inc** (Sept 2017 – Dec 2017)

- Undertook web development on AngularJS and Springboot framework using Thymeleaf template engine, to provide enhanced services on the website.
- Automated the daily and weekly report processes using Transact-SQL Stored Procedures.
- Creating python scripts on Raspberry Pi 3 to enable the product to display notification of the activities and status.

**Assistant System Engineer at Tata Consultancy Services Pvt LTD, Bangalore, India** (Sep 2015 – Mar 2016)

- Developed solutions to manage the risks which affect the organization's market in every category.
- Managed back-end database of web applications on MySQL
- Completed SAP Basis Training and had hands-on exposure to the working of SAP software.

## PROJECTS

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- ❖ **Sales Forecast Analysis** *(Aug 2017 – Dec 2017)*  
**Technologies:** Python, SAS, R **Models:** Regression, Time Series Modelling, Text Analysis
  - Examined ecommerce QVC dataset to get insights related to products, sales, campaigns, marketing.
  - Performed predictive modelling and applied techniques such as regression, forecasting, time series analysis, sentiment analysis and text mining on the given datasets.
  
- ❖ **Mail Order Catalog Retailer Analysis to Increase Revenue** *(Jan 2017 – May 2017)*  
**Technologies:** SAS, **Model:** RFM Modelling
  - Used descriptive modelling techniques (RFM) on a mail-order catalog retailer to increase revenue by proper customer segmentation based on customer loyalty and behaviour.
  - to identify profitable customers.
  - Modeled the expected response of individual customers based on customer characteristics
  
- ❖ **Risk Prediction and Analysis for Hospital Readmission** *(Jan 2017 – May 2017)*  
**Technologies:** R, Tableau, Excel, **Models:** Correlation, Regression, Clustering
  - Working on hospital data to predict patterns by apply techniques like Clustering, Regression and Correlation analysis, Pattern mining, Data pre-processing, outlier detection and data visualization using R, Tableau and Excel.
  
- ❖ **Web App: Shout- A microblogging site** *(Oct 2016 – Dec 2016)*  
**Technologies:** Django
  - An application where people can share their views regarding a topic, event, etc.
  - The project has been developed in Django framework and MySQL has been used for backend

## HACKATHONS – *On the path to become a #DataKnight*

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- ❖ **HackathonCLT18 (2018) – Runner-up in the Hack Category** *(Mar 2018 )*  
**Technologies:** Python, **Models:** Stepwise Regression, Logistic Regression
  - Examined the various datasets given to tackle the problem of economic mobility in charlotte focusing on providing a model to create affordable housing prices.
  - Performed data preprocessing on two selected datasets, identified significant attributes using correlation analysis.
  - Created two models with stepwise regression and logistic regression to predict the factors affecting the housing prices and suggested measures to make them affordable based on the analysis performed.
  
- ❖ **Queen City Hackathon (2017)-Reddit Data Analysis** *(Nov 2017)*  
**Technologies:** Python, SAS, R, Tableau **Models:** Regression
  - Investigated the cascades of false and sensitive information being spread in the social media in the area which could potentially impact people's behaviour about topics trending in and around Charlotte.
  
- ❖ **HACKNC (2017)-Recognito-Alexa-vision (Alexa-RaspberryPie-Camera-AWS Rekognition API Integration)** *(Nov 2017)*  
**Technologies:** Python, AWS API
  - Our attempt to make Alexa to make more humanly by giving her vision using AWS Rekognition API to detect objects. We believe the applications for this project are endless:
    - Self-invocation of Alexa for greeting and warm gestures when Family member is nearby
    - Home security
    - Video surveillance using Quad copter

## ACHIEVEMENTS/ EXTRA CURRICULAR ACTIVITIES

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- **Head-Of-Department Nominee of Computer Department** *(2014-2015)*
- **Training and Placement Cell Student Coordinator** *(2013-2015)*